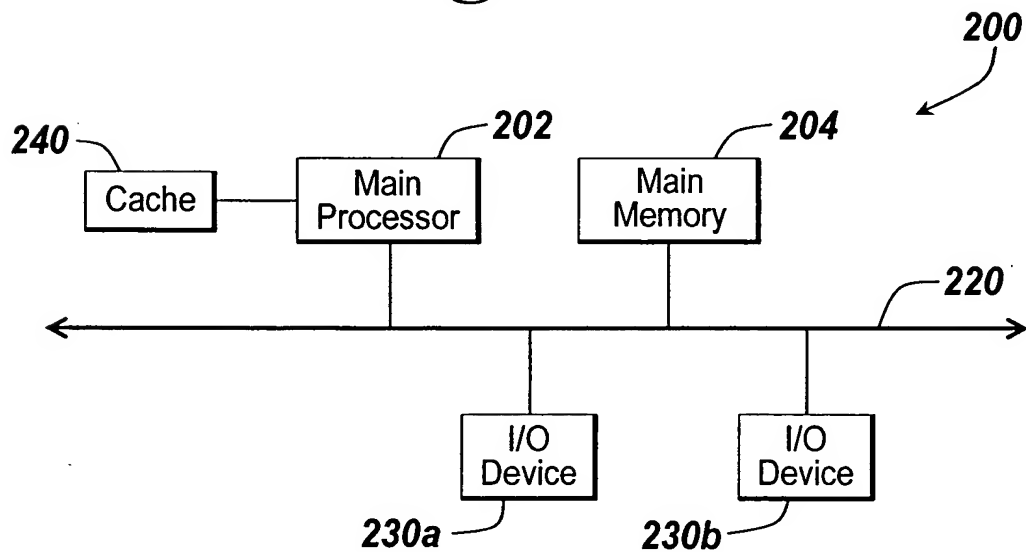
*Fig. 1**Fig. 2A*

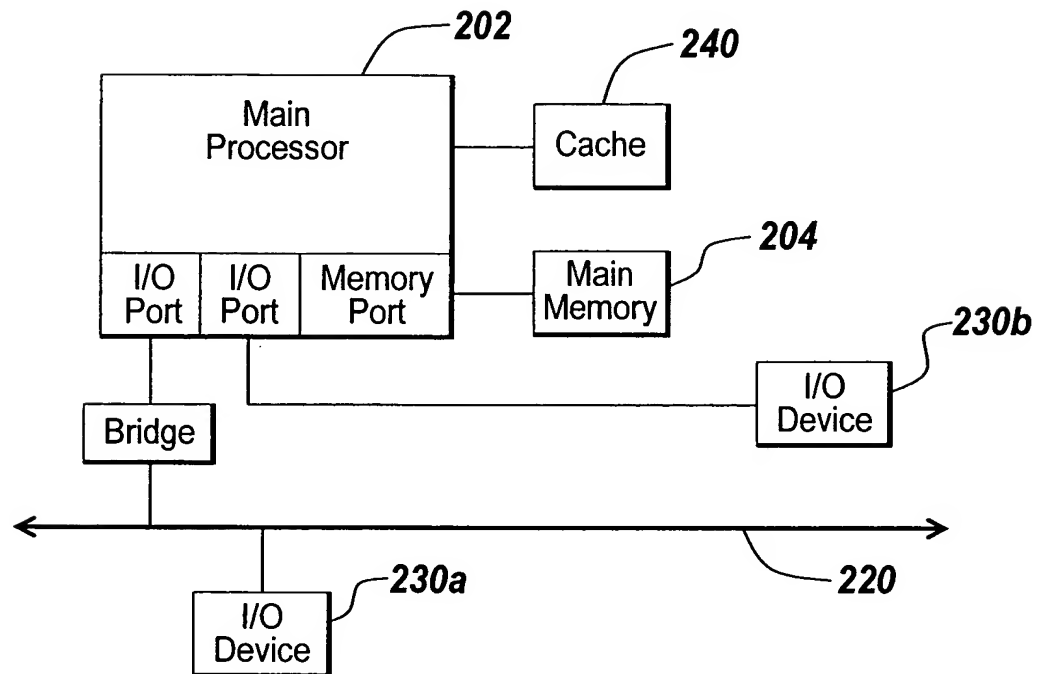


Fig. 2B

300

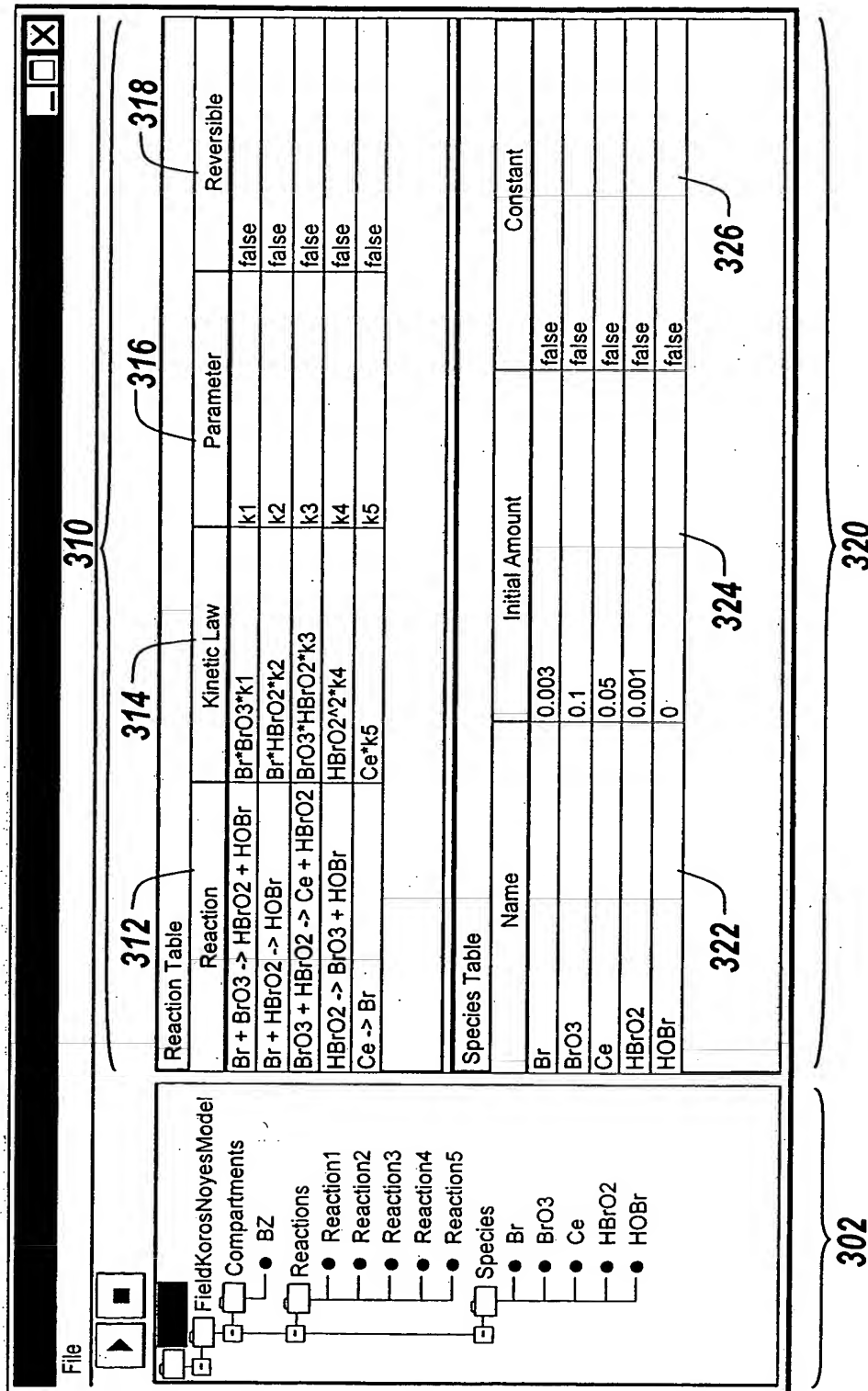


Fig. 3A

File Edit

heatshock

Reactions

Species

DNA

FtsH

HsIVU

Pfolded

Protease

Punfoided

Punfoided DnaK

RNAP

mRNA_DnaK

mRNA_FtsH

mRNA_HsIVU

mRNA_Protease

mRNA_s32

pg

ph

s32

s70

s32:DnaK

s32:RNAP

s32:RNAP:ph

s70:RNAP

s70:RNAP:pg

Reaction Table	Reaction	Kinetic Law	Parameter	Reversible
s70 + RNAP -> s70:RNAP	Mass Action	K		true
pg + s70:RNAP -> s70:RN..	Mass Action	K		true
s70:RNAP:pg -> s70:RNA_32	Mass Action	K		true
mRNA_32 -> null	Mass Action	K		false
mRNA_32 -> s32	Mass Action	K		true
s32 -> null	Mass Action	K		false
s32 + RNAP -> s32:RNAP	Mass Action	K		true
ph + s32:RNAP -> s32:RN..	Mass Action	K		true
s32:RNAP:ph -> mRNA_DnaK	Mass Action	K		true
mRNA_DnaK -> null	Mass Action	K		false
mRNA_DnaK -> DnaK	Mass Action	K		true
DnaK -> null	Mass Action	K		false
s32 + DnaK -> s32:DnaK	Mass Action	K		true
Punfoided + DnaK -> Punfo...	Mass Action	K		true
Punfoided:DnaK + Pfolded ...	Mass Action	K		true
Pfolded -> Punfoided	Mass Action	K		true
s32:RNAP:ph -> mRNA_FtsH	Mass Action	K		true
mRNA_FtsH -> null	Mass Action	K		false
mRNA_FtsH -> FtsH	Mass Action	K		true
FtsH -> null	Mass Action	K		false
s32:RNAP:ph -> mRNA_HsIVU	Mass Action	K		true
mRNA_HsIVU -> null	Mass Action	K		false
mRNA_HsIVU -> HsIVU	Mass Action	K		true
HsIVU -> null	Mass Action	K		true
s32:RNAP:ph -> mRNA_Pro...	Mass Action	K		false

Species Table

Name	Initial Amount	Constant
DnaK	0	false
FtsH	0	false
HsIVU	0	false
Pfolded	17800	false
Protease	0	false
Punfoided	0	false
Punfoided:DnaK	0	false
RNAP	1337.6174	false
mRNA_DnaK	0	false
mRNA_FtsH	0	false
mRNA_HsIVU	0	false
mRNA_Protease	0	false
mRNA_s32	0	false
null	0	false

Fig. 3B

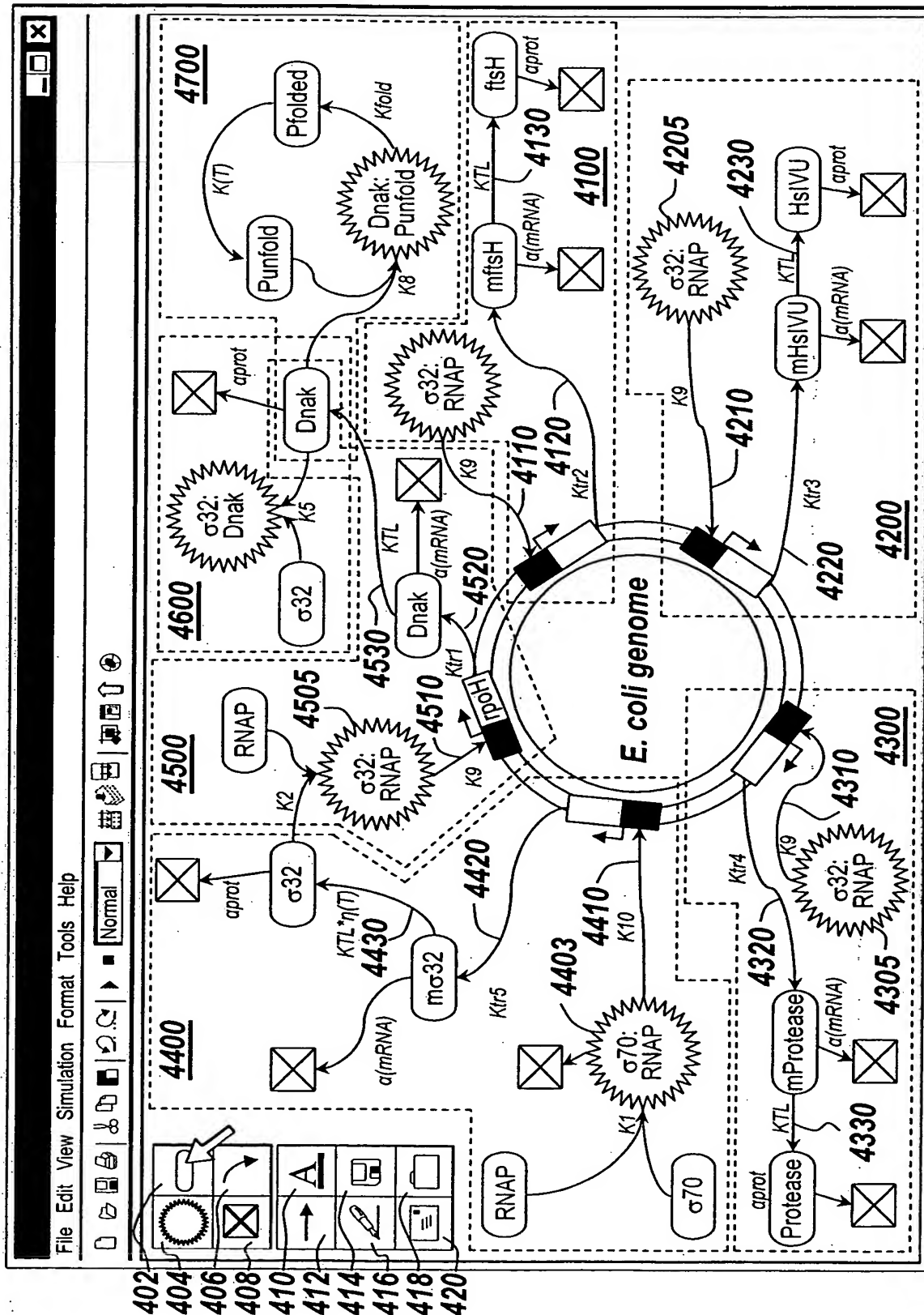
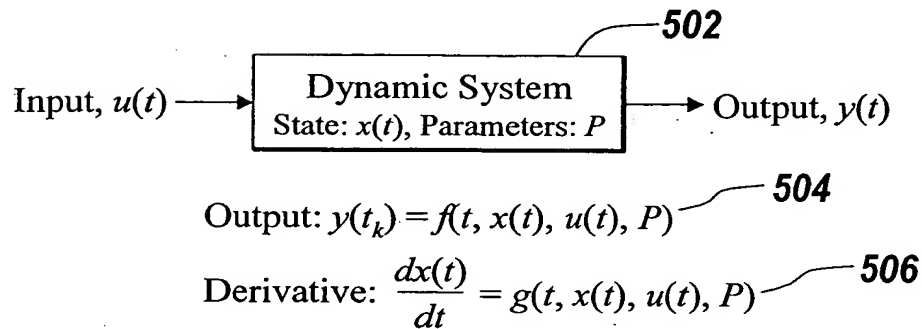
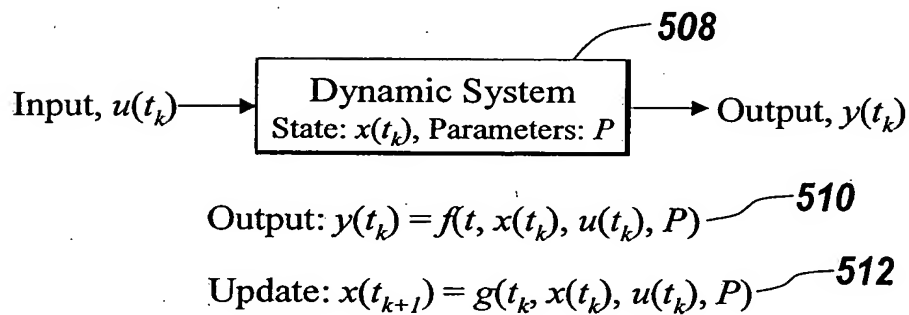
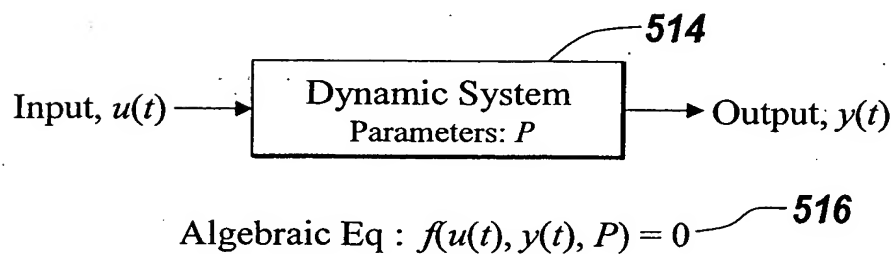


Fig. 4

*Fig. 5A**Fig. 5B**Fig. 5C*

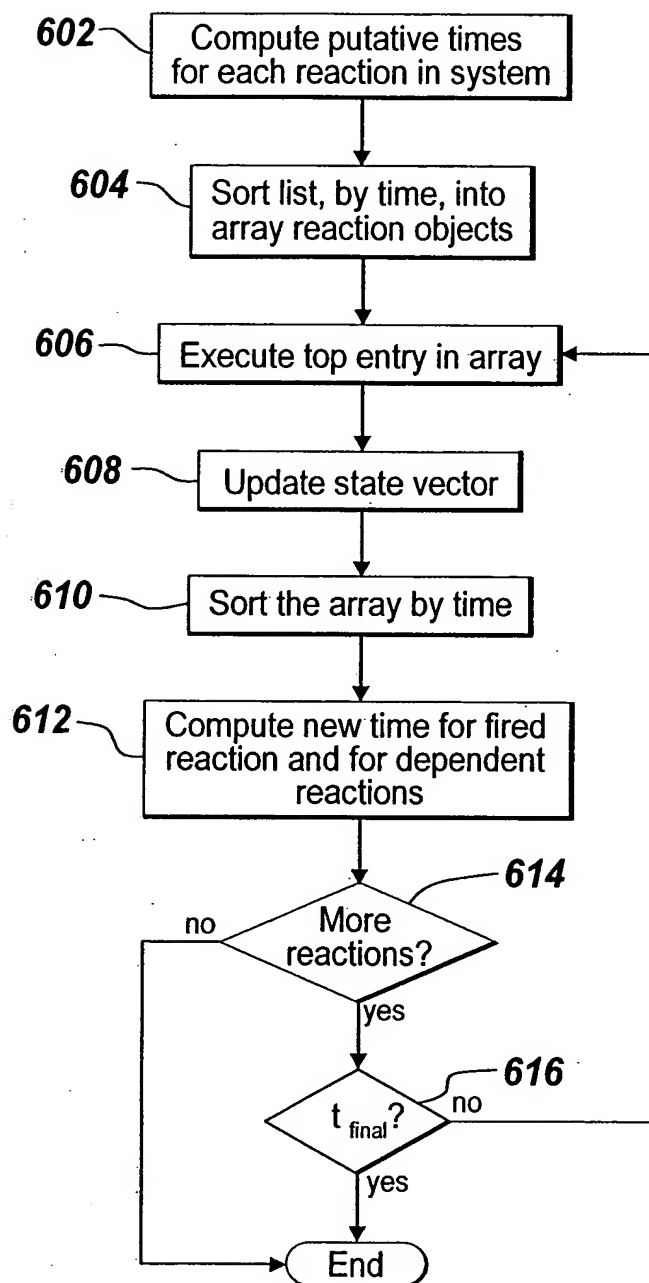
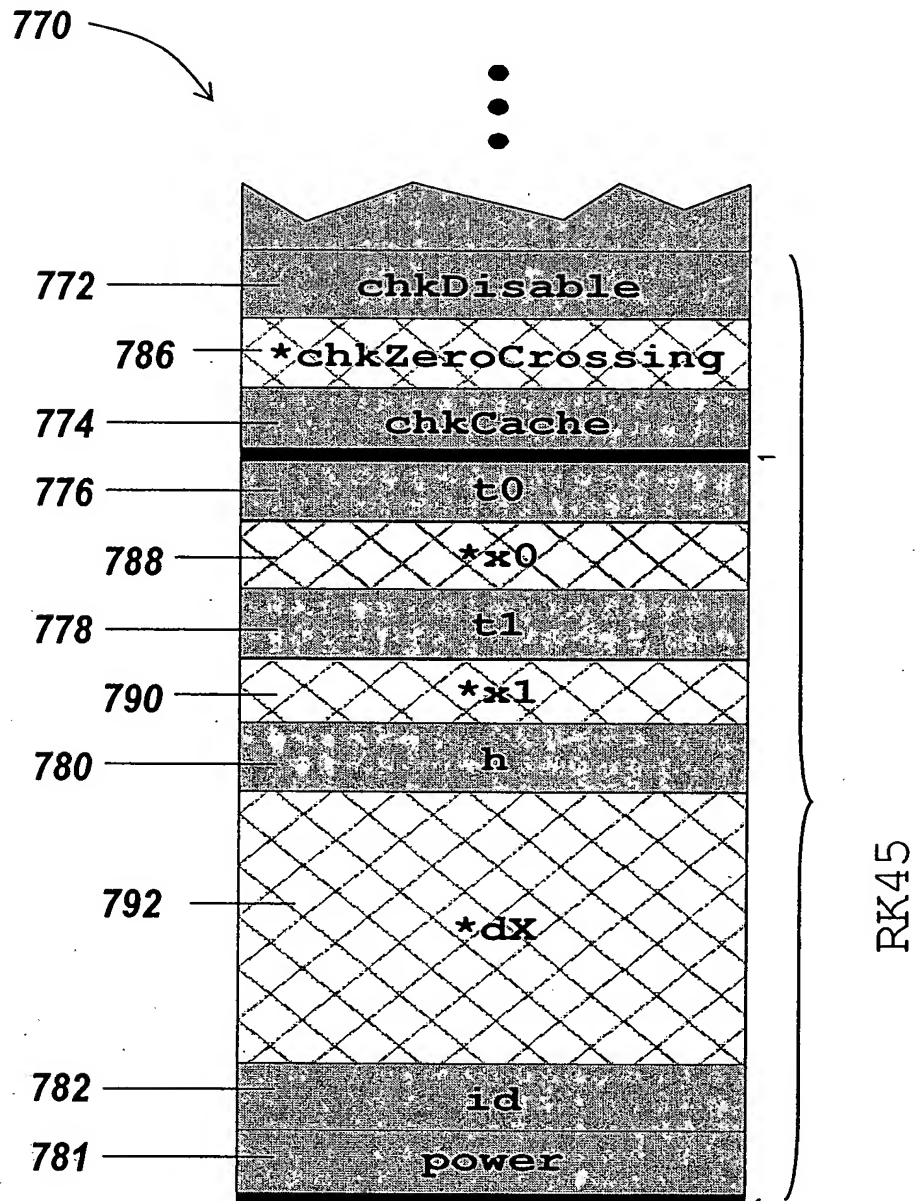


Fig. 6

*Fig. 7*

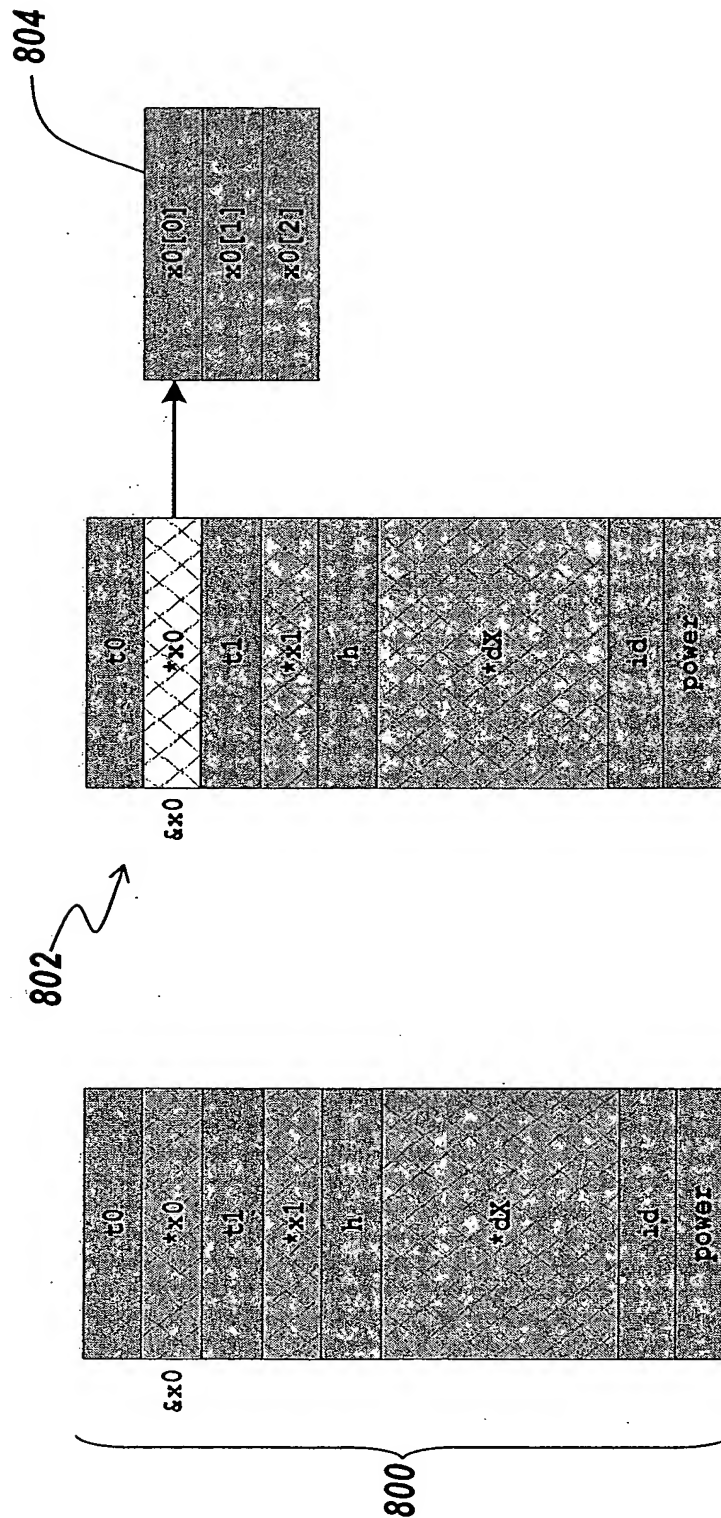
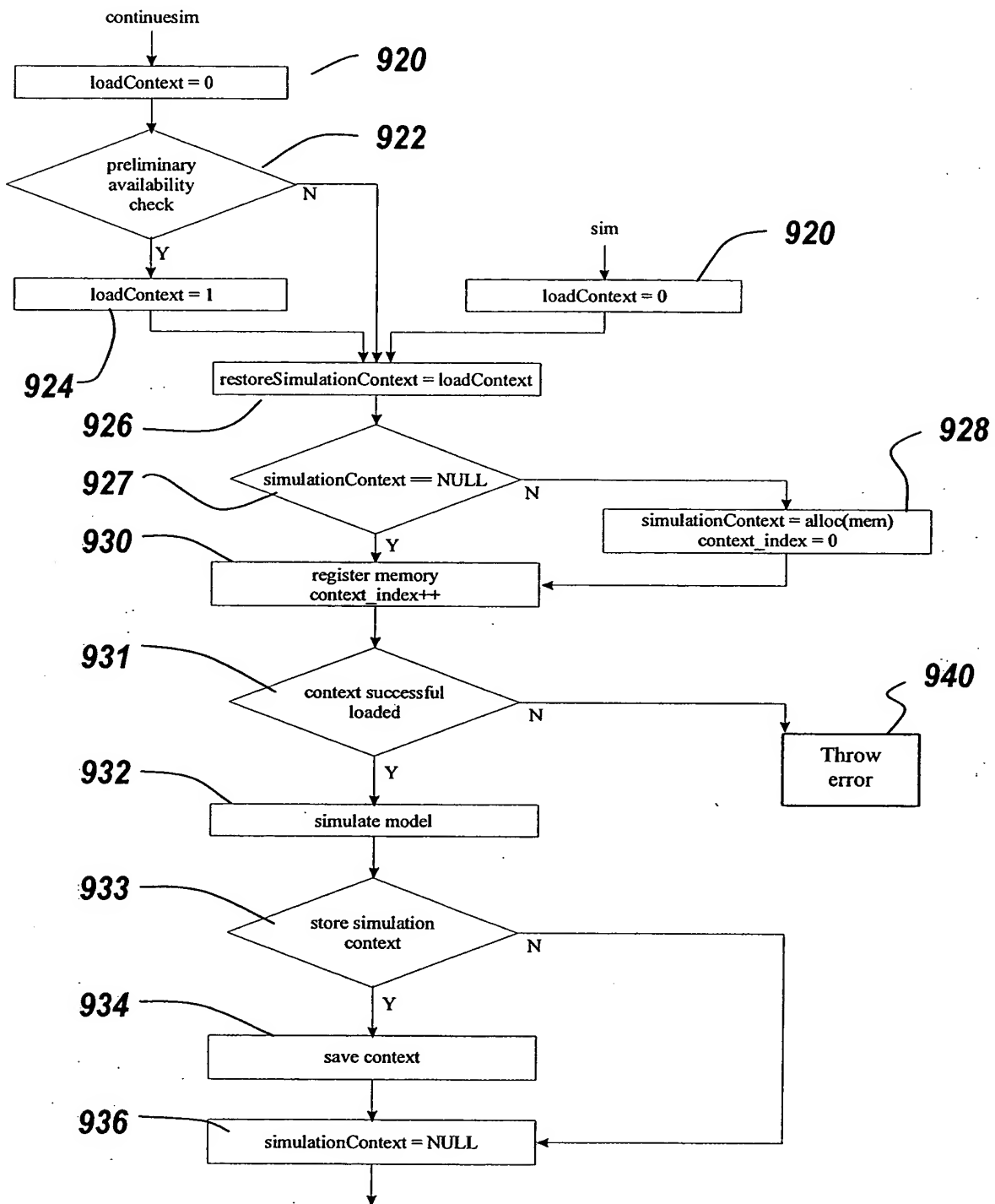


Fig. 8B

Fig. 8A

*Fig. 9*